



Length 99 mm

## APPLICATION

DCW097 is a robust, chemical-resistant waterproof LED luminaire for industrial and general-purpose applications, resistant to ammonia exposure. GRP housing with PMMA diffuser as standard and PC diffuser as an option. High efficiency up to 169 lm/W, 4000 K, CRI ≥80, symmetric light distribution and IP66 protection. Available with On/Off or DALI control, emergency lighting and through-wiring options.

|                               |                            |                             |                      |                   |                        |                       |                           |
|-------------------------------|----------------------------|-----------------------------|----------------------|-------------------|------------------------|-----------------------|---------------------------|
| <b>8600 lm</b><br>SYSTEM FLUX | <b>51 W</b><br>INPUT POWER | <b>169 lm/W</b><br>EFFICACY | <b>4000 K</b><br>CCT | <b>≥80</b><br>CRI | <b>IP66</b><br>INGRESS | <b>IK05</b><br>IMPACT | <b>50 000 h</b><br>L90B10 |
|-------------------------------|----------------------------|-----------------------------|----------------------|-------------------|------------------------|-----------------------|---------------------------|

## ELECTRICAL PARAMETERS

|                                   |                           |                                        |                             |
|-----------------------------------|---------------------------|----------------------------------------|-----------------------------|
| Nominal supply voltage            | <b>230 (220–240) V AC</b> | Supply voltage range                   | <b>198–264 V AC</b>         |
| Type of supply current            | <b>AC</b>                 | Supply frequency                       | <b>50–60 Hz</b>             |
| Rated input power                 | <b>51W</b>                | Power factor (PF)                      | <b>0.95</b>                 |
| Driver efficiency at nominal load | <b>92%</b>                | Total harmonic distortion (THDi)       | <b>&lt; 10% @ full load</b> |
| Protection class (electric shock) | <b>I</b>                  | Surge protection (CM / DM)             | <b>4/2 kV</b>               |
| Driver type                       | <b>TCI</b>                | Number of luminaires on MCB 16A type B | <b>45</b>                   |

## PHOTOMETRIC PARAMETERS

|                                 |                             |                                     |                    |
|---------------------------------|-----------------------------|-------------------------------------|--------------------|
| Luminous flux — system          | <b>8600lm</b>               | Luminous flux — LED module          | <b>9600lm</b>      |
| Luminous efficacy — system      | <b>169lm/W</b>              | Correlated colour temperature (CCT) | <b>4000 K</b>      |
| Colour rendering index Ra (CRI) | <b>≥80</b>                  | Init. CRI tolerance                 | <b>±3</b>          |
| Light distribution type         | <b>Symmetric</b>            | Luminaire beam spread               | <b>120.0°</b>      |
| Optic type                      | <b>N/A</b>                  | Light output ratio (LOR)            | <b>0,90</b>        |
| Photobiological safety class    | <b>RG0</b>                  | Flicker — Output PstLM / SVM        | <b>≤0.1 / ≤0.2</b> |
| Colour consistency (SDCM)       | <b>&lt; 3 MacAdam steps</b> | Upward light output ratio (ULOR)    | <b>N/A</b>         |
| Luminous flux tolerance         | <b>±5 %</b>                 |                                     |                    |

## CONSTRUCTION &amp; MATERIALS

|                                |                           |                                        |                   |
|--------------------------------|---------------------------|----------------------------------------|-------------------|
| Luminaire type                 | <b>Dust/Waterproof</b>    | Light source type                      | <b>LED</b>        |
| Light source replaceable       | <b>yes</b>                | Cap / base type                        | <b>Integrated</b> |
| Housing material               | <b>GRP</b>                | Reflector material                     | <b>N/A</b>        |
| Housing coating                | <b>N/A</b>                | Optic material                         | <b>PMMA</b>       |
| Optical cover material         | <b>N/A</b>                | Housing colour (RAL)                   | <b>RAL 7035</b>   |
| Mounting type                  | <b>Surface, suspended</b> | Cutout size                            | <b>N/A</b>        |
| Overall dimensions (H × W × L) | <b>99x100x1185</b>        | Weight (net)                           | <b>1.5kg</b>      |
| Effective projected area       | <b>N/A</b>                | Windage projection area (side / below) | <b>N/A</b>        |
| Number of light sources        | <b>1 pcs</b>              | Number of gear units                   | <b>1 pcs</b>      |

## PROTECTION &amp; ENVIRONMENT

|                             |                     |                            |                     |
|-----------------------------|---------------------|----------------------------|---------------------|
| IP rating — enclosure       | <b>IP66</b>         | Impact resistance class IK | <b>IK05</b>         |
| Operating temperature range | <b>-40...+35 °C</b> | Storage temperature range  | <b>-40...+65 °C</b> |
| Glow-wire test              | <b>650 °C / 5 s</b> | Relative humidity (max)    | <b>N/A</b>          |

#### CONTROL & DIMMING

|               |     |                                   |            |
|---------------|-----|-----------------------------------|------------|
| Dimmable      | No  | Control protocol / interface      | on/off     |
| Dimming range | N/A | Built-in motion / presence sensor | on request |

#### RELIABILITY & LIFETIME

|                                       |                  |                                      |        |
|---------------------------------------|------------------|--------------------------------------|--------|
| Light source lifetime                 | 50000 @ L80 B10h | Lumen maintenance @ 50 000 h         | L80B10 |
| Lumen maintenance @ 100 000 h         | L70 B10          | Control gear failure rate @ 50 000 h | 5 %    |
| Control gear failure rate @ 100 000 h | 10 %             | Maximum case temperature Tc          | 75°C   |

#### CERTIFICATIONS

|                   |         |                                      |     |
|-------------------|---------|--------------------------------------|-----|
| Warranty period   | 5 years | CE marking                           | Yes |
| ENEC mark         | No      | ENEC+ mark                           | No  |
| UKCA marking      | Yes     | D4i certified (DALI)                 | No  |
| EU RoHS compliant | Yes     | Light source energy efficiency class | C   |

#### STANDARDS & SUSTAINABILITY

|                          |                                                  |                           |                |
|--------------------------|--------------------------------------------------|---------------------------|----------------|
| Applicable standard      | EN-IEC 62722-2-1                                 | ETIM Class                | EC002892       |
| Recyclable content ratio | Not determined                                   | Non-virgin material ratio | Not determined |
| Sustainability rating    | Not determined                                   | EAN / UPC                 | Not determined |
| Application areas        | Industry, warehouses, parkings, general lighting |                           |                |

**Environmental data.** Embedded carbon, recyclable content and sustainability ratings are provided per article where determined.

**Documents.** Photometric files (IES / LDT) and installation instructions are available at takton.ee.